DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake:	HALE POND	Lake Area (ha):	7.32
Town:	GRAFTON	Maximum depth (m):	---
County:	Grafton	Mean depth (m):	---
River Basin:	Merrimack	Volume (m^3):	---
Latitude:	43°32'40" N	Relative depth:	---
Longitude:	72°00'23" W	Shore configuration:	---
Elevation (ft):	1570	Areal water load (m/yr):	---
Shore length (m):	---	Flushing rate (yr^{-1}):	---
Watershed area (ha):	---	P retention coeff.:	---
% watershed ponded:	---	Lake type:	natural w/dam

BIOLOGICAL:			June 2000
DOM. PHYTOPLANKTON (% TOTAL)	#1		
	#2		
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			
DOM. ZOOPLANKTON (% TOTAL)	#1		
	#2		
	#3		
ROTIFERS/LITER			
MICROCRUSTACEA/LITER			
ZOOPLANKTON ABUNDANCE (#/L)			
VASCULAR PLANT ABUNDANCE			
SECCHI DISK TRANSPARENCY (m)			
BOTTOM DISSOLVED OXYGEN (mg/L)			
BACTERIA (E. coli, #/100 ml)	#1		
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):
Hypolimnion volume (m^3) :
Anoxic volume (m^3) :

CHEMICAL:

Lake: HALE POND
Town: GRAFTON

			June 2000		
DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY (μmhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 2000

D.O.	S.D.	PLANT	CHL	TOTAL	CLASS

COMMENTS:

1. Hale Pond was visited, was determined to be more a wetland than a pond and was not surveyed.

2. The open water appeared to be quite small (estimated 3 acres) and very shallow (3 feet or less throughout). The open water was surrounded by wetlands. Access to the open water would require dragging a canoe through approximately 200 to 300 feet of wetlands.